ABSTRACT

This apparatus relates to shoring of deep excavations such as pits or trenches. It includes vertical rail posts arranged symmetrically in pairs which are spaced form each other along the excavation, articulated trusses holding opposite rail posts against each other and large shoring panels sliding between adjacent rail posts on either side of the excavation. Each rail post has on either side one channel of stepped cross section guiding vertically two or more shoring panels. The connections between the post and the panel are partially or completely open. The open connections are performed by magnetic forces engendered by thin magnetic flat bars incorporated in the posts or the panels in the area of their contact. The articulated truss is of scissoring type composed of triangular cells only and their members have pinned connections. The cross members of the truss are pinned together in their mi-length enabling their relative rotation while their extremities are pinned into the vertical members which have several row of pinning holes in order to adjust the width of the trench without need for additional spreaders. The vertical members of the truss slide formlockingly between pair of opposite posts and could be adjusted at any level form the bottom of excavation.

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